



Testing. Advising. Assuring.

Indicative test report

No. 2015-1754

issued 28.02.2018

Applicant:

Spandex AG
Oberglatterstrasse 13

8153 Rümlang
Schweiz

Date of order:

08.07.2015

Date of sampling:

no official taking out of the sample from a representative of the Exova Warringtonfire, Frankfurt

Date of arrival:

22.07.2015

Date of test:

24.07.2015

Order

Testing of the flammability (building class B1) according to DIN 4102-1 (May 1998)

Description / designation of the test object

Sample material designated as: IP 2558 MultiGrip Film

Description of the relevant test procedure

DIN 4102 part 16 (May 1998)

1. Description of the test material

1.1 Details of the customer:

Material Composition: IP 2558 MultiGrip Film

Intended end use of product: Self-adhesive films application

1.2 By Exova Warringtonfire, Frankfurt determined values:

Self-adhesive film (foil glued on aluminum)

Thickness: 3,2 mm

Colour: white

Square weight: 8,184 kg/m²

Testing after clima storage at 23° C and 50 % rel. hum. L. moisture

2. Test results

2.1 "Brandschacht" test according to DIN 4102-1

Sample A: Material in direction of production

| Test results of the "Brandschacht" tests part 1 | | | | | | |
|---|---|--------------------------|---|---------|----------------|---|
| line no. | | measurements test sample | | | | |
| | | | A | B | C | D |
| 1 | <u>no. test arrangement according to DIN 4102 part 15, table 1</u> | | 7 | | | |
| 2 | <u>flame height max. over lower sample edge</u> time ¹⁾ | cm | 60 | | | |
| | | min : s | 1:32 | | | |
| 3 | <u>ascertainties on the front side</u> Flaming/glowing time ¹⁾ | min : s | 1:29 | | | |
| 4 | <u>melting / burning through</u> time ¹⁾ | min : s | not occured | | | |
| 5 | <u>ascertainties on the back side</u> Flaming/glowing time ¹⁾ | min : s | not occured | | | |
| | | 6 | <u>discolouring</u> time ¹⁾ | min : s | not occured | |
| 7 | <u>burning droplets</u> begin ¹⁾ | min : s | not occured | | | |
| 8 | occasional dripping of material | | | | | |
| 9 | constant dripping of material | | | | | |
| 10 | <u>separating from burning sample parts</u> begin ¹⁾ | min : s | not occured | | | |
| | | 11 | occasional separating parts | | | |
| | | 12 | constant separating parts | | | |
| 13 | duration of burning on the sieve tray (max.) | min : s | not occured | | | |
| 14 | influence on the burner flame by dripping of / separating material time ¹⁾ | min : s | no | | | |
| 15 | <u>earlier end of test</u> end of the fire scenario on the sample ¹⁾ | min : s | not occured | | | |
| 16 | time of a possible resulted test stop ¹⁾ | min : s | | | | |

¹⁾ time from start of test

| Test results of the "Brandschacht" tests part 2 | | | | | | |
|---|---|---------|--------------------------|--|---|---|
| line no. | | | Measurements test sample | | | |
| | | | A | | C | D |
| 17 | <u>flaming after end of test</u> duration | min : s | not occured | | | |
| 18 | number of sample | | --/-- | | | |
| 19 | front side of sample | | --/-- | | | |
| 20 | backside of sample | | --/-- | | | |
| 21 | flame length | cm | --/-- | | | |
| | | | --/-- | | | |
| 22 | <u>glowing after end of test</u> duration | min . s | not occured | | | |
| 23 | number of sample | | --/-- | | | |
| | place of occurrence | | --/-- | | | |
| 24 | lower sample part | | --/-- | | | |
| 25 | upper sample part | | --/-- | | | |
| 26 | front side of sample | | --/-- | | | |
| 27 | backside of sample | | --/-- | | | |
| | | | | | | |
| 28 | <u>smoke density</u> < 400 % x min | | 60 | | | |
| 29 | > 440 % x min | | --/-- | | | |
| 30 | diagram in annex no. | | 1 | | | |
| | | | | | | |
| 31 | <u>residual length</u> single results | cm | 46 / 40 48 / 44 | | | |
| 32 | average of the single results | cm | 44 | | | |
| 33 | foto of the sample on page | | 5 | | | |
| | | | | | | |
| 34 | <u>smoke temperature</u> max. of the average results | °C | 113 | | | |
| 35 | time ¹⁾ | min : s | 9:46 | | | |
| 36 | diagram in annex no. | | 1 | | | |

¹⁾ time from start of test

Remarks: none

2.2 Appearance of the specimen after the test:

3. Indicative Assessment

The determined results showed that the material is able to fulfill the requirements for the B1 classification according to DIN 4102-1 (May 1998).

4. Special note


The fire test result is only valid for the in chapter one described material tested in free hanging configuration.


The distance to other flat material must be more then ≥ 40 mm.

The material wasn't tested after an outside storage.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is not valid any longer. According to DIN 4102-1 the burning behaviour in combination with other materials has to be tested separately.

Frankfurt, the 28.02.2018

i. V. 
H. Anders
Tester in charge

i. V. 
Dipl.-Ing. T. Zachäus
Head of the business

The results of the tests relate only to the behaviour of the test sample which is designated on the top.
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This test report contains 6 pages and 1 annex.

Annex 1 to the test report No. 2015-1754 issued 28.02.2018

